



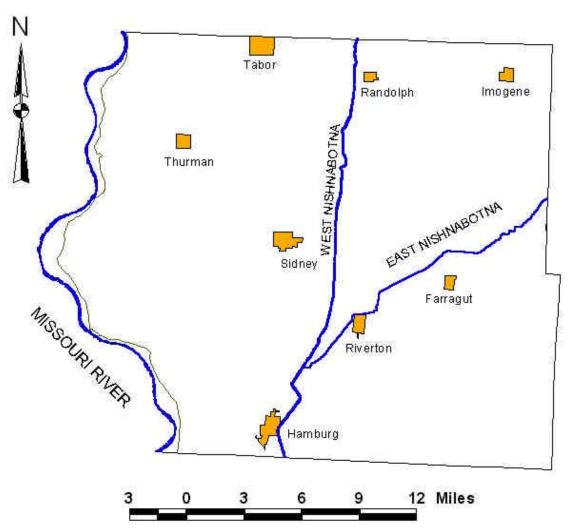
By David Carter, Fremont SWCD Wetland Specialist

United States Department of Agriculture





Two River's Project Easements and Applications



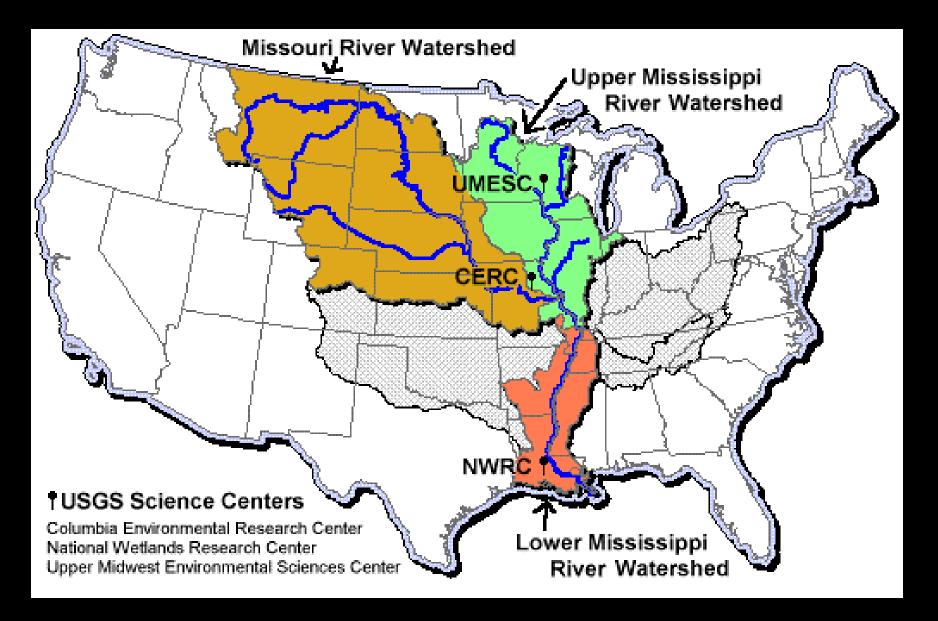
Fremont County has three rivers which can flood over 30,000 acres at any one flood event.



Nishnabotna River Watershed



Our other flood plain involves a slightly larger watershed.



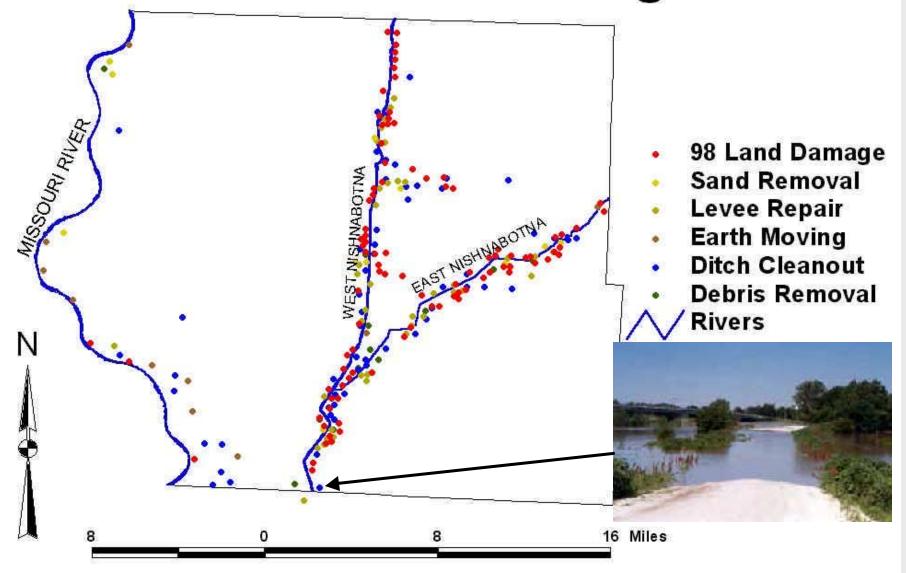
Overview

- Flooding History and Need for Project Partnerships
- Two Rivers Project Objectives
 - Wetland and Riverine Habitat Restoration
 - Easement Program Management
 - Wetland and Riverine Systems Education & Outreach

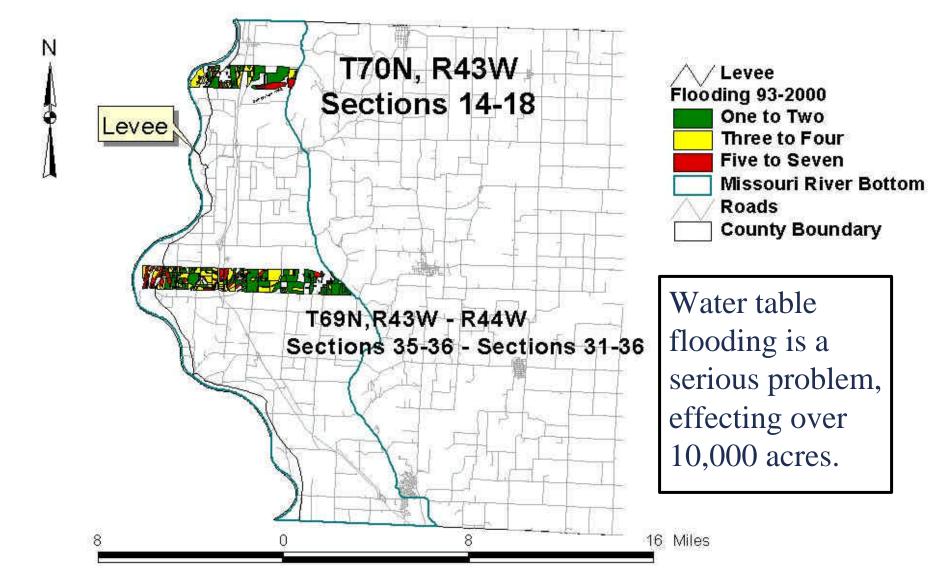


Overland flooding causes several million dollars worth of damages to homes, towns and cropland.

98 Flood Damage



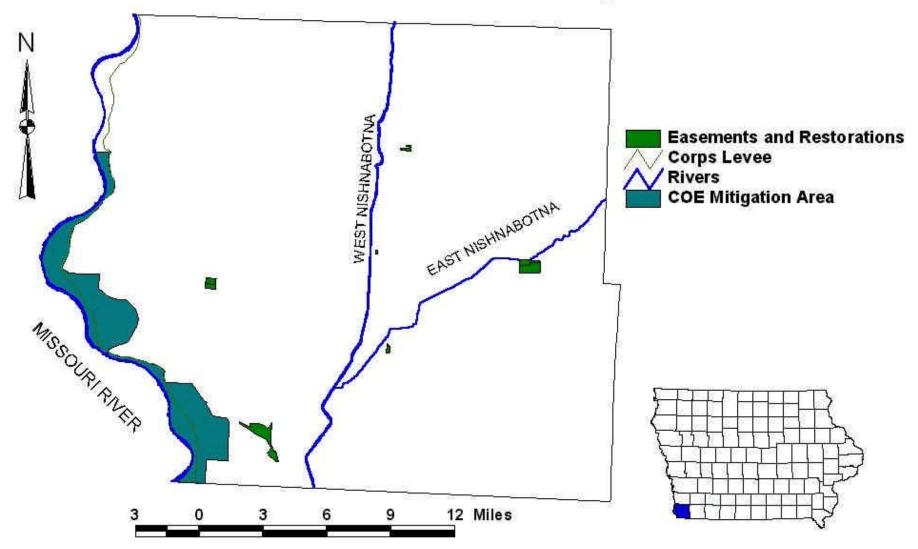
Recently Damaged Crops in Fremont County



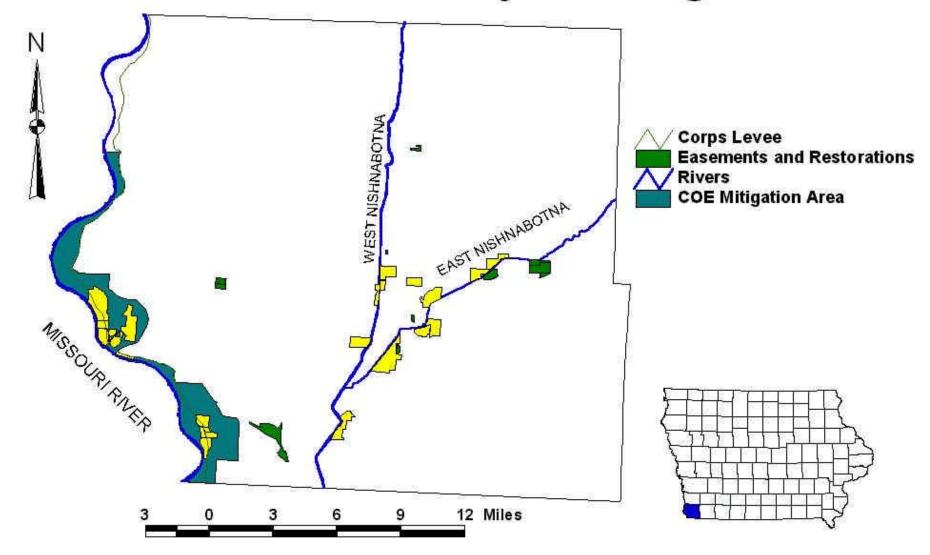




Easements Prior to Two Rivers Project



Easements Accepted Since Two Rivers Project Began



Wetland Restoration

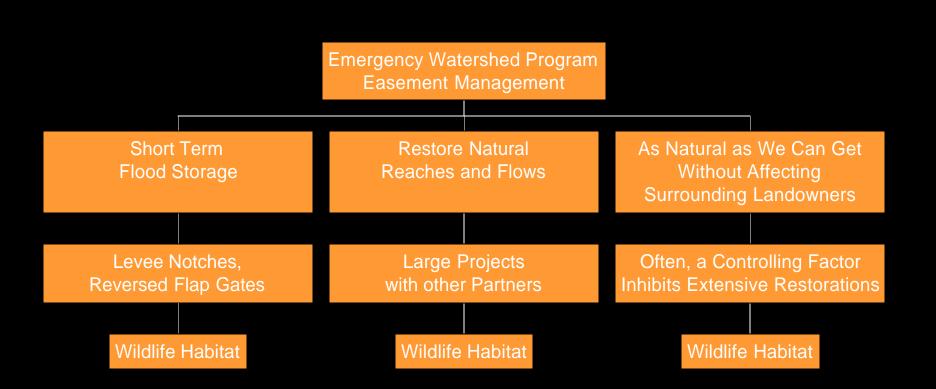
Wetland Reserve Program Easements Restorations

Restore Hydrology if at all Possible

Use Leeves and Crossdikes for Different Habitats

Sometimes, Nothing Is Done, but Nature Is Allowed to Take Over

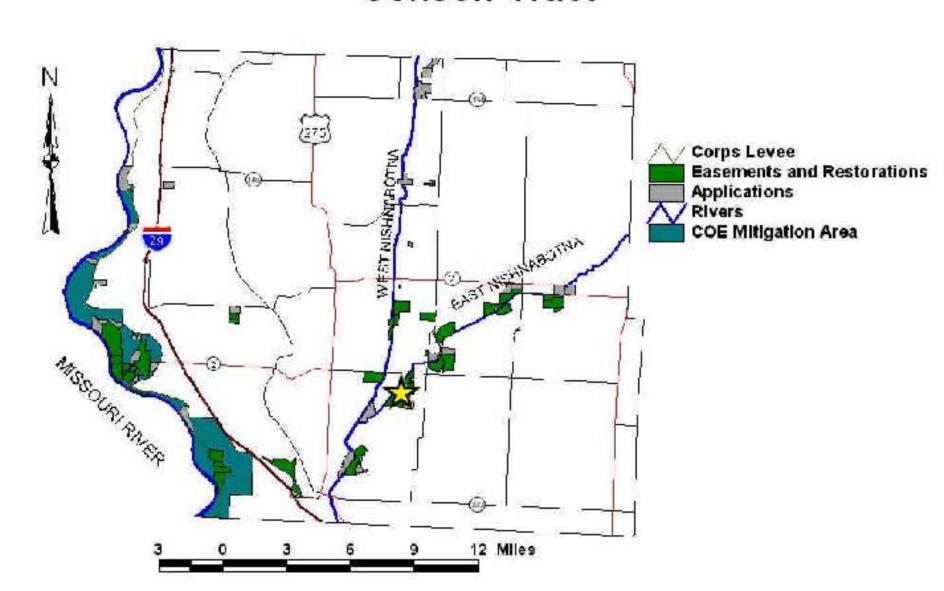
Flood Plain Restoration



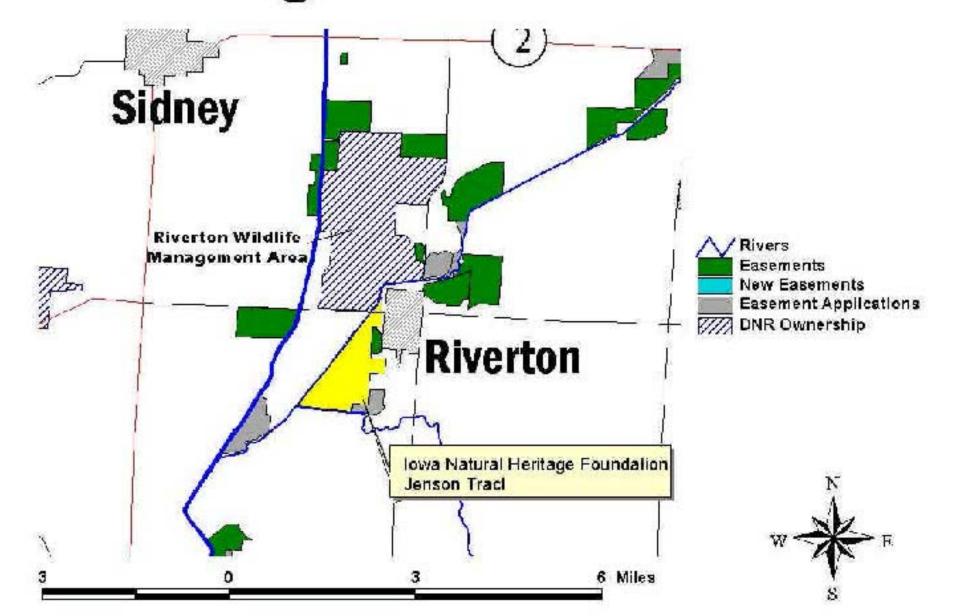
Easement Restoration Partners

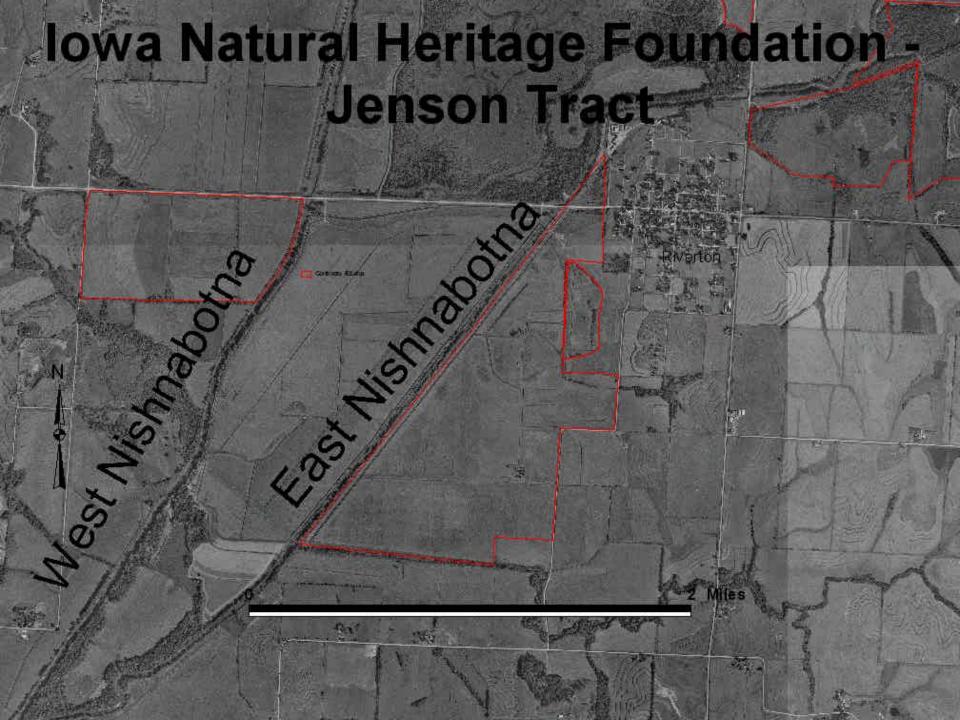
- Environmental Protection Agency fund district employee/wetland specialist and special projects, such as outdoor classroom.
- Ducks Unlimited and US Fish & Wildlife Service provides cost-share incentives from \$500 per person for work not covered by NRCS/DSC.
- Drainage Districts provided cost-share for flood control.
- US Army Corps of Engineers and lowa
 Department of Natural Resources buy residual values of easements and completes and manages restoration.

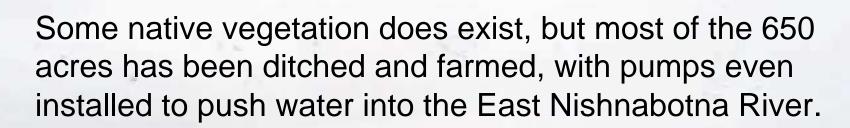
Iowa Department of Natural Resources Jenson Tract



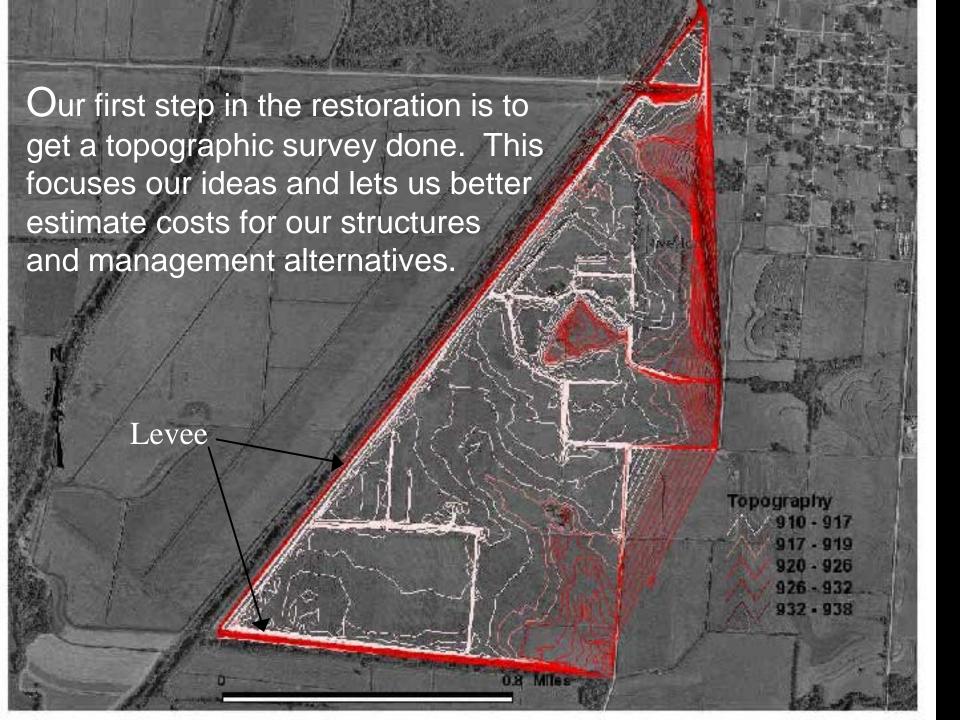
Management Alternatives

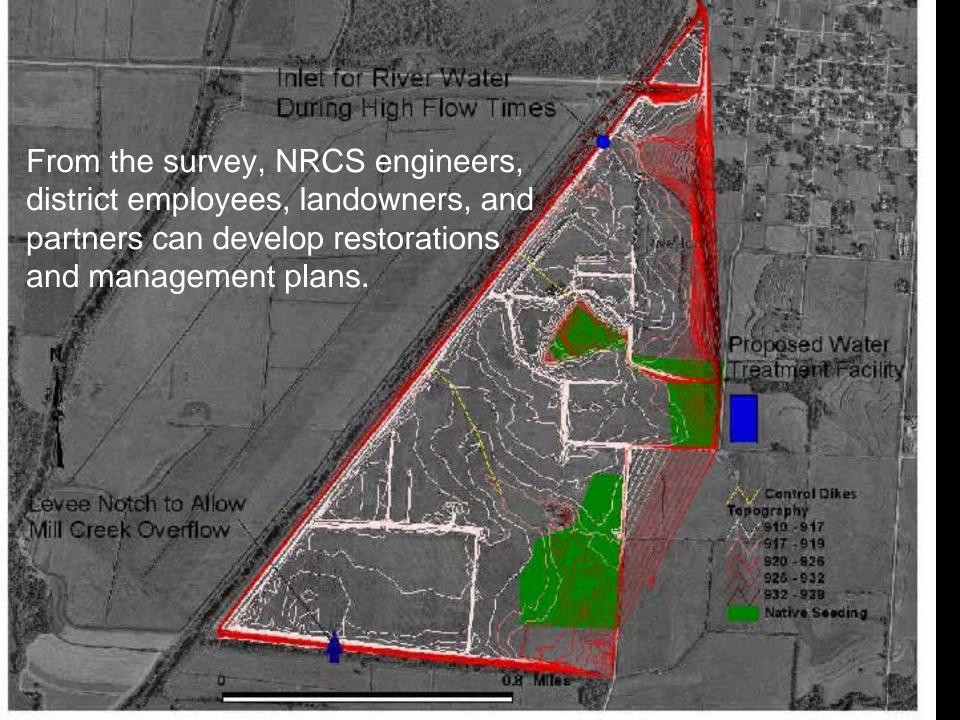




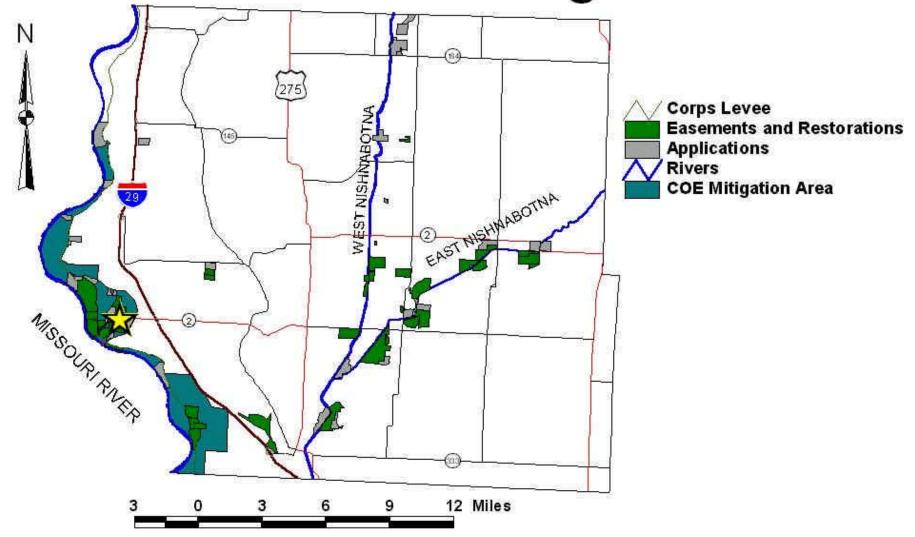


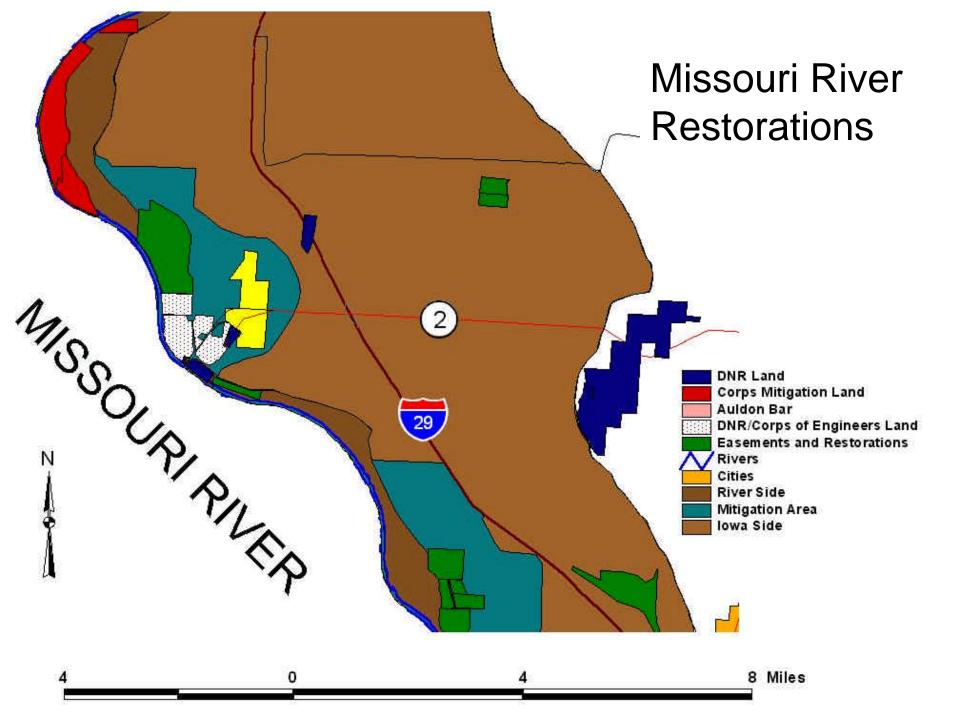


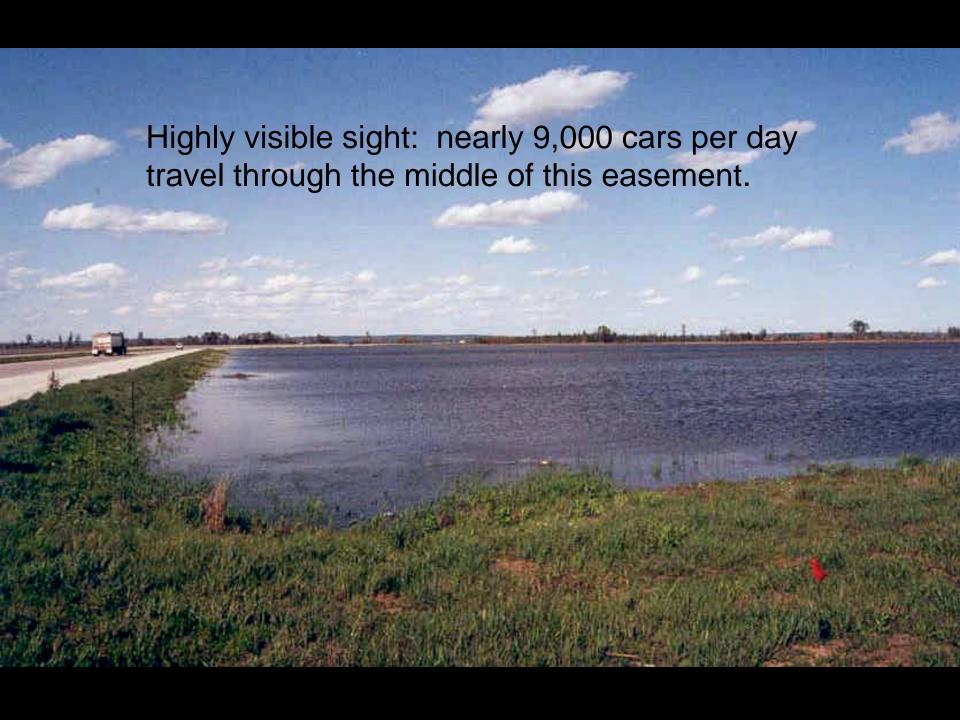




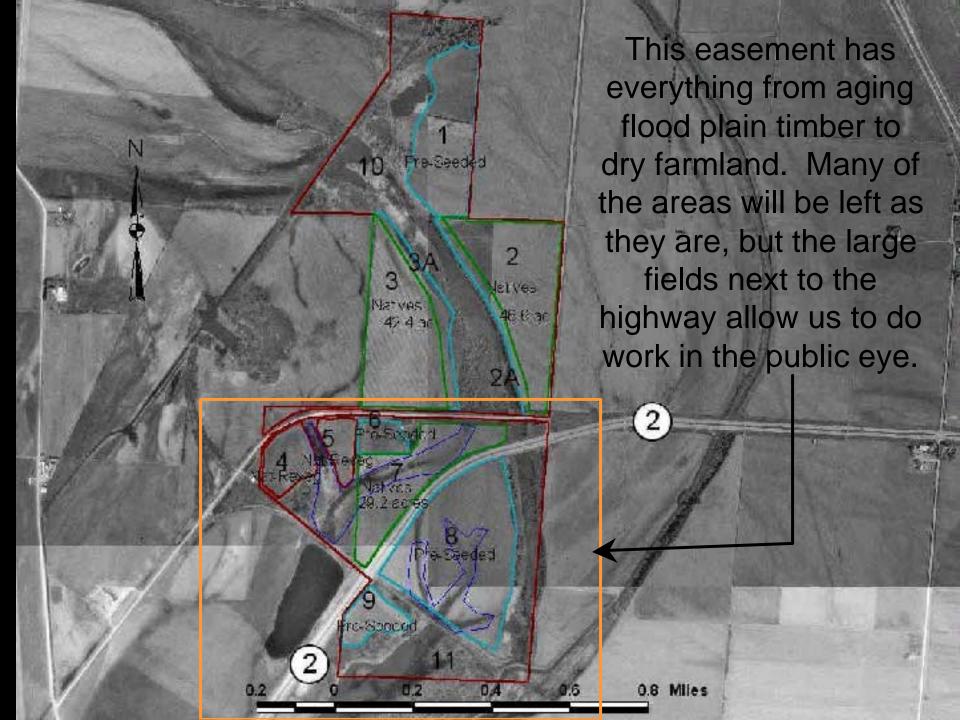
Missouri River/Highway 2 Easement Management

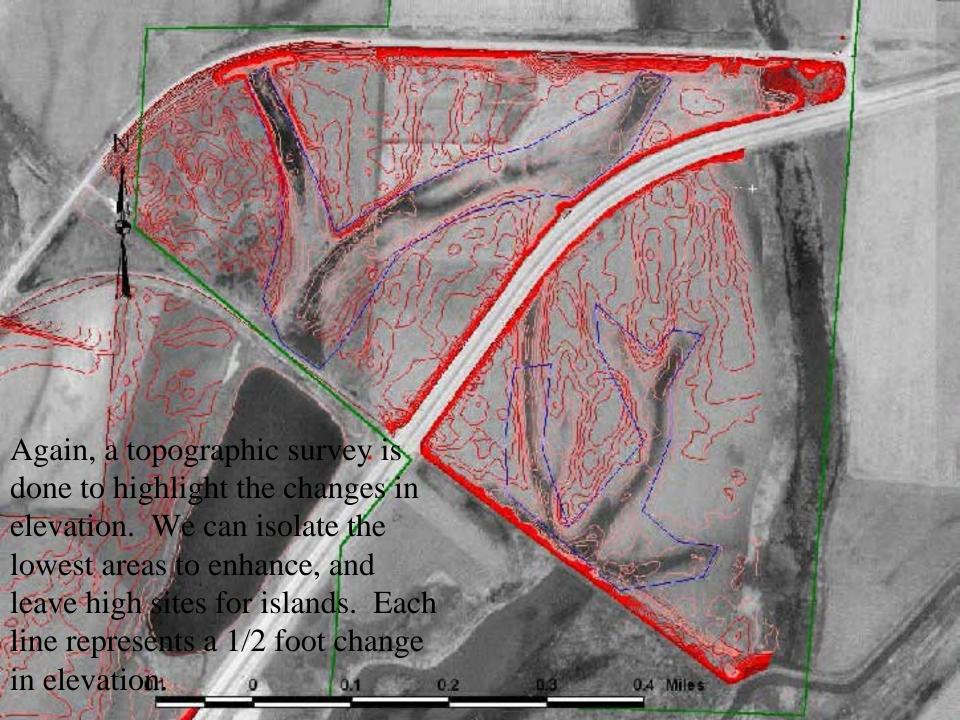












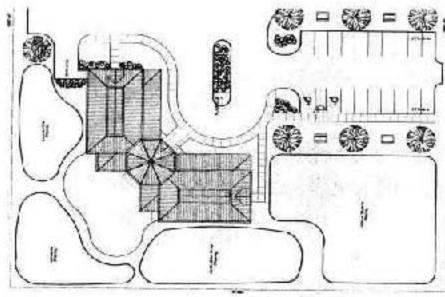
Reaching the Public

Southwest Iowa Visitor's Center



Proposed Building with indoor wetland displays.

Wetland/Natural Resources Education and Display Area





Bike trails through these new permanent wetland easements could increase the number of people who see the area and take notice of NRCS programs.







Conclusion

- Fremont County has enrolled over 5,500 acres since 1998 by working together with its partners.
- •Plans are to enroll an additional 4,000 in the next few years.
- •Restorations vary widely from Nishnabotna Rivers to the flood plain of the Missouri River.
- Native vegetation will be restored on easements, considering data from original land surveys, current site conditions, and landowner objectives.
- •Through our programs, we can reduce flood damage within the county, and provide nearly 7,000 acres of wetland, flood plain and upland habitat that was nearly all cropland only a few years ago.

THE RESIDENCE OF THE

